SOUTHERN IEXTILE BULLET

VOL. III

CHARLOTTE, N. C., APRIL 25, 1912

NUMBER 8

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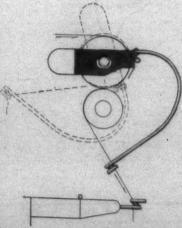
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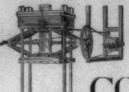


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SOUTHERN IEXTILE BULLETIN

VOL. 3

CHARLOTTE, N. C., APRIL 25, 1912

NUMBER 8

Equipment and Testing for Uniform Sizing

Leonard W. Cronkhite before National Association of Cotton Manufacturers

On goods of the same specifications, the percentage of size centive to the operatives towards added to the yarn was found to cleanliness and attention to details range from 6 to 11 per cent. In Considering how easily the conanother mill where similar work sistency of starch either in its mantested for weight it was found that the one room was putting on 7 per degree of cleanliness usually exercent, and the other 12 per cent of cised in the kettle room is insuffi-Two slasher machines side cient. by side, using size from the same kettle and sizing the same sort of warps for identically the same weaves have been known to be from 3 to 5 per cent apart in respect of the amount of size added. Variations from hour to hour on the same slasher have been noted; and is common mill experience that the first run in the morning is liable to give light warps, and the first run in the afternoon to give either light or extra heavy sized the size. Good starch bins are warps according to the custom followed during the noon stop.

Since relatively few mills calculate size records from hour to hour and day to day, perhaps few realize what lack of uniformity attends the sizing process. No manufacturer is safe in saying that his sizing is done uniformly until he has made careful tests, and attempted certain precautions that at best the average equipment may make alof no use. In fact under the conditions imposed by the incompleteness of the average sizing equipment, uniformly good warps are well nigh a miracle. German mills, in particular, and some mills here, are proceeding on the assumption that the trouble lies largely ir the equipment rather than in the vigilance of the size room operatives, and have modified the fittings and practice of their size departments accordingly.

The suggestions following are intended to enable checking up the work of a sizing department by certain standards absolutely essential to uniform work

I. Equipment for Uniform Work

like a clean kitchen, in others it is fittings.

running in two slasher rooms was ufacture or in its use is affected by slight chemical disturbances, the cient. Any size left in the kettle to harden and cause rust or corroto harden and cause sion is some day going to cause mixing. Kettles and agitators need frequent scraping, flushing, and cleaning to insure uniform results in the first stage of the sizing process. If the kettle room is arranged properly, there will be little temptation to accumulate size sweepings, dirf, and hardened size, to dump into the boiling mixing to lower the quality of small but paying investment. best bins are those built overheard, at the bottom of which the starch is easily on tap. Metal pans flooring at the base of the kettles take care of overflows and easily cleaned.

Dissolving Becks.

Some mills use tubs in which to stir the dry starch into water in order that it may be strained through a sieve on its way into the the boiling kettle. The condition of some starches make this a wise precaution. The breakage on slasher due to the presence of chips insoluble lumps, and other foreign matter has in some cases been cases been found to be considerable.

Cooking Appliances.

made of non-corrosive metal. The occurence of runs of rust spots and

copper is better yet.

The use of wood for kettles is as a rule to be condemned. The shape of the wood vat is usually wrong the corners of wooden vats making proper agitation impossible, and inviting the caking of size. Unless wood vats are frequently renewed the wood becomes impregnated with spoiled size that exerts an acid and thinning action on the mixings Wooden vats are seldom constructed to close tight at the top and this adds further to make them undesirable.

A kettle ought to be fitted with tight covers. Often mill operatives are found boiling one kettle with cover up and another with the cover down. The difference in thining of the mixings from condensation or evaporation is a factor. The rough and ready method of testing size in the kettle by letting some of the mixture run of the end of a stirring paddle does not show up variations in viscosity from such causes but they nevertheless affect the weaving quality of a warp. In a large industrial laundry where the slighest change in the consistency of the starch is at once reflected in the work, difference in the starch mixture was once traced to so slight a thing as the manipulation of the covers of ed kettles only ought to be used. the starch kettles. In one or two instances chemical disturbances from atmospheric conditions due to the proximity of nearby chemical work have made closed kettles absolutely necessary. Some foreign and racturers have seen further reasons for tightly closed kettles: careful study. Some idea of the and utilize the construction to enattention given it by foreign, espeable agitation of the mixture by cially German manufacturers, can strong steam jets instead of mechan-be had from but a glance at the ical agitators, and to allow violent foreign literature on the subject. manufacturers have seen boiling of sizing substances not readily dissolvable in the usual way

Any kettle ought to be fitted with Equipment for Uniform Work cleaning, is generally to be laid to two-paddle one-way agitator is deIn some mills the kettle room is the character of the kettle or its fective. It generally revolves the ke a clean kitchen, in others it is fittings. The chemical action of size instead of thoroughly mixing size instead of thoroughly mixing

large and carefully manage a place where apparently anything caked and putrifying size on a sus—it. Refatively few mills can stired cotton mill investigated will do in any way. Cooking size ceptible metal is rapid, thins the the mixture into a perfect starch the supposed uniform uniformly is so far from being a size, and causes staining. Iron ket—milk before they boil the size. The work of its sizing depart—crude task that the equipment tles are a costly economy. Tinned result is that the starch paste is not on goods of the same speci—should be so good as to be an in—or galvanized iron is better, but absolutely homogeneous and free from little gloubules of partly cooked starch that later appear at the Sets of agitator squeeze rolls. arms moving in opposite directions give a mixture of uniform consistency, break up the lumps, bring every part of the mixture into contact with the maximum heat, ar lessen the accumulation of cakes of size on any part of the kettle or agitator arms. Apparatus of this kind moreover brings within the of this range of use many substances not easily dissolved but useful in siz-

> The method of heating the mixture in the kettle is important and intimately affects the uniformity of the results. Small jacketed kettles considerably used in foreign plants constitutes the only proper arrangement, certainly for small plants. The jacketed kettle does away with the disturbing factor of condensation. In some mills, getting dry steam seems to be a problem; thinning the mixture as much as 15 per cent. has been observed. Many size rooms are under a constant handicap in this respect. If steam is injected directly into the mixture every possible precaution ought to he taken to deliver dry steam. Where the location of the size rooms mak es dry steam difficult to get jacket-

It goes without saying that every mill needs kettles enough to be able necessary to boil up different mixing for different goods. many mills for lack of an extra kettle or two are seriously limiting the proper special treatment of thousands of pounds of cotton in the relatively inexpensive sizing process preparatory to the expensive process of weaving. In some cases re-sort is had to either adding water to the size in the boxes or stirring in cold starch to get the right consistency for a special run of work on one of two or more slashers. It is impossible to do uniform work in this way. Even in a small mill where-

(Continued on next page)

Equipment and Testing for Uniform the mixture itself cooked a second of this character in nearly all cases the weaver's beam of sized yarn Sizing.

Continued from Page 3

more than one kettle may seem unnecessary, resort to this rule of thumb method ought to be avoided by having an extra kettle.

Piping.

A similar limitation on special treatment of different warps often exists because of incomplete piping this. The least that can be done from the various kettles to the various have direct sewer connection ious slashes. Many mills have plenty of kettles, plenty of slashes, and various styles of work, but never have brought these elements into harmonious relation. It means only a small outlay on extra piping and valves, to connect every kettle with every slasher, so that any kind of mixing desired can be run on the special work of any slasher. The piping ought to be of copper or brass and of ample size. Any kind of iron piping means a run of spots at some time or other. There should no sharp angles to hinder the flow of size and strain the pumps; all changes of direction should be in wide curves. The branch pipes leading from the main piping system to each slasher should be as large and short as possible, and readily detachable for special cleaning. If the main piping is dipped in a wide curve beside each size box, the length of these branch pipes can be reduced to a minium to avoid all refuges outside the circulation for the size to cool and harden in.

Pumping and Circulation System.

It is practically impossible to size uniformly with a gravity system of conveyance from kettles to size boxes. In any gravity system the size has time to cool and gelatinize in some section of piping. If this cold size sticks and has to be blown out by steam, the result is a run of thinned size. Before the jelly lumps that blow out can be boiled up, they are likely to form hard spots on the yarn. A strong pumping system avoids some of thes troubles

No pumping system, however, is complete unless the piping admits of constant circulation of the size from the kettles through the lipes past each slasher tap, and back again to the kettles. This is absolutely essential to uniform work The size is at all stages hot and is delivered at a uniform viscosity. If the long curve dip before mentioned is given to the main pines besides each size box, all possibility of disturbance from cold size in in the short branch tap pipes can be avoided.

A refinement found in a few mills is an arrangement of the piping by which all size left in the size boxes at noon and night can be pumped back to the kettles, leaving the boxes empty to be flushed and

Many mills having no such arrangements leave size in the boxes overnight. It would be a saving in weaving expense to throw this size away rather than leave it. The skin that forms in contact with the air is almost impossible of solution again, the water used to flush and

time is never quite right again. Some mills connot even throw the size away without having the operatives carry it off to some sink by pail. The result is that boxes are seldom emptied and seldom cleaned. One large mill runs with an accumulation of one inch of plain black mud on the bottom of each size box for just such a reason as with each box. With a complete circulation and pumping system re-course to these wasteful and damaging practices can easily be avoided. Moreover the whole piping system, the boxes, and the kettles can be flushed with hot water steam, and cleaning made part the regular operation of the sizing plant.

In one or two cases where the proper system of return from each box is used, the sizes in the boxes at night is pumped back to a kettle which there has previously been boiled up a mixing heavier than the usual batch. Mixing the return size that has been thinned in the boxes by condensation, with the thicker batch about evens up the thickness to the usual standard for the first run in the morning. This practice is an improvement, but even it is not strictly good, since the composite mixture described does not give the usual addition of weight. There being somewhat more solid matter than usual to each gallon to give the required thickness in the morning, the weight added to the yarn will be a little off standard. The perfect way is to gauge the size needed for each day and make fresh batches every morning. Size that is boiled up a second time is not as efficient as size that is applied direct from pairs the adhesiveness, a fact that the adhesiveness, afact that pairs doubtless explains the feeling of size some operatives that letting stand over night makes it smoother in feel in the morning. Where size must be left overnight, mixing with a freshly prepared and heavier mixing in the morning is the best expedient.

In mills having a long line of slashers and having no circulation system, difficulty is sometimes experienced on the distant slashers in getting the size as thick and strong as on the nearer slashers. In gravity system this is due to the accumulation of separated water the end pipes, and to the fact that the cooled size in the distant sec tions of piping has to be boiled up again in the boxes and is thereby impaired in adhesiveness, feeling on the yarn as it it were thin and

One way to rectify this is to have a kettle of extra heavy size in the regular kettle room, conveying this if necessary in pails but preferably in an extra large pipe to a mixing near the further slash. beck this beck is run a definite proportion of the regular size and a definite proportion of the heavier size. the mixture being fed to the slash-

Size Box Attachments.

form work.

The box of course should be of non-rusting material. Occasionally a case comes to light where the box and all the fittings are of brass or copper save perhaps one little bow, and to the action of hardened size on that spot have been traced runs of rust spots.

The use of steam pets in the size box is a source of trouble. The steam thins the size. The steam pipes get clogged. The boiling is often too violent, and causes hard spots when the size strikes the yarn after it has passed the squeeze rolls The extreme heat further cakes any size already cooled in the corners The size is not easily of the box. kept at a uniform heat.

The best remedy for these difficulties is the cornerless double bottomed box, the upper or size box of which is heated by hot water in the lower compartment. This scheme is in considerable use in foreign

No more important factor for or relative to the squeeze rolls. Regulation of this is generally left to the vigilance of the slasher tender but should be automatic. Some use electrical bell signals call attention to the need for more A surer way is the automatic SIZA float feed. This keeps the size constant level and at a practically constant heat. .In mills where there are no such devices, as the size gets low in the box it is the custom of some operatives to keep lowering the depression roller instead of constantly running in more size But it is not merely the depth of the depression roll in the size that determines the amount of size added to the yarn, but also the dip of the squeeze rolls into the size, since this determines the amount of size taken up by the lower rolls to the point where the upper and lower squeeze rolls meet the yarn, where they impregnate it with size as well as squeeze the surplus size off.

It seems evident enough that the weight and condition of the squeeze rolls can greatly influence the amount of size taken up by the yarn and to some extent the way in which the size will be distributed through the yarn. A large mill was once attempting to size similar yarns for of the necessary moisture in on similar machines, and yet use rolls weighing 400 pounds more on one machine than on the other without compensating leverage devices of any kind. The actual difference in amount of size added ran over 4 per cent. Too careful attention to the condition and lapping of the cloth on the rolls cannot be given, streaks and badly sized spots readily being caused by poor rolls

On one or two new foreign types of slasher machine, careful attention to all such details at the size again, the water used to flush and ers at the right consistency. A good the back beams is made easy for soften the rolls thins the mixture, circulation system through large the operatives by arrangement of the steam jets become clogged, and pipes will of itself obviate trouble the machinery in such a way that

is located near the size box The ordinary size box is an added ahead of the back beams, the whole source of difficulty in getting uni- operation being under the operative's eye from one point.

Slasher Machine Factors The usual cylinder drying slasher has defects that have led to the adoption in Germany, France, and to some extent in England, of improved forms of air drying apparatus, utilizing modern principles of forced ventilation. As these im-provements do not in all points affect the question of uniform work they ought not to be described at length here; but a serious study of their claims to betterment of the work is worthy any manufacturer's time and impartial literature on the subject can be readily obtained Briefly the new system, in addition to giving greater production, dry the yarn progressively, reduce the tension to a minimum, retain the original roundness of the thread largely do away with baking the ends together and the consequent injury to the warp in separating the ends, automatically cool the drying chambers during stoppages or slow speed to avoid hard-sized runs, and better the room conditions. In adagainst uniform sizing operates dition some of the new machines than the height of the size in the box are fitted with either rotary or reciprocating brushes to better lay the fibre before the yarn is dried, and to cause easier separation after is dried with less tearing up of the to fibre at the lease rods.

> The substitution of air for cylinder drying involves an important factor affecting uniform work that is extremely difficult to regulate on cylinder dryers. Stoppages or slow runs generally mean hard streaky sized places entailing extra damage to the threads when they are pulled apart at the lease rods extra difficulty in the loom, and an uneven feel to the goods. The use of automatic appliances to reduce the steam heat in the cylinders is a help, but even then the heat retained by the metal surfaces of the cylinder tends to bake the yarn, cause hard runs and extra damage at the lease rods when the sheet is separated. In the new drying machines quick cooling of the drying chambers during stoppages easily effected.

When a slasher is used for sizing the and drying a number of different styles in turn, care is not always taken to regulate the heat, so that light sheet will be delivered on weaver's beam with as much the same work with similar mixings starch and the cotton as would be retained in a heavy sheet. A reduction of say 20 per cent in steam pressure will not mean a reduction in degrees of temperature in anywhere near as great a proportion. and allowance for greater reduction in steam pressure made.

An apparently minor cause can greatly vary the quality especially of close weaves, and that is the rolling and crossing of ends as they wind on the weaver's beam. ple patent device worthy of notice consists of a straight comb and anbox, and also to breaks and laps on other offset comb, the teeth of the back beams is made easy for which are inclined; the bent co forces the ends in each dent of the

(Continued on Page 6)

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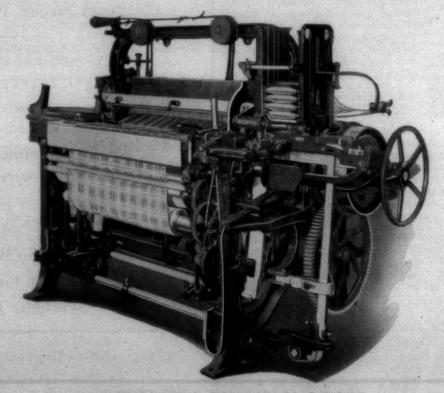
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Uniform Sizing.

(Continued from Page 4) straight comb to reach the front roll side by side in the order originally intended.

In any mill frequent tests of the uniformity and quality of the work done by the sizing department ought to be made.

Wherever it is practicable there ought to be an established table of standard percentages of size needed on each kind of warp for the various weaves. The weights of at least several beams in each style ought to be taken each day, and the resultant percentages of size calculated. In such calculations, naturally only the actual average count, and not the nominal count. of the yarn ought to be used. Records of this kind once figured and established as part of the routine, cost almost nothing, are little work, and show up trouble at its source.

Where the same sizing materials are used day after day in fixed formulas, a very fair laboratory test for uniformity of materials can be made in the mill right at the machines by means of an ordinary Twaddell hydrometer, used in conjunction with a thermometer to get readings at a given temperature The habit of going by certain standard readings for each formula will check up variations and is easy for any operative. Going a step further, purchasing departments ought so far as feasible to buy all sizing materials on specification, paying for quality. Several corporations are doing this on starch and tallow, in the case of starch specifying a maximum limit for the moisture content, a limit for the impurities. a condition as to akalinity or acidity and where the degree of progress of the starch manufacturer admits, a fixed viscosity, with understood penalties and procedure for deviations from standard. Any good textile laboratory can check up these points on shipments. Every firm with a really good product welcomes this kind of test and purchase.

New products should be tried only to be at least harmless and indicatwork on products new to him, and degree of care. presumably turned out by specializ- With proper equipment, knowning chemists, is willing to hear the materials and tests that test the sizseller's interpretation of the chemical analysis he reports to a mill, before having a mill man pass final judgment on the article. Some mill men think they are conservative in sizing matters, when they really are only timid in the dark. Many a mill man has been induced to try supposed infallibility of a practical tests in the mill where a sizing test is infallible only if it is the very several thousands of dollars loss that a laboratory test could have shows too that the cheapest place - Exchange.

to buy water is at the mill faucet, and the cost of the information is less by the sheet than by the bar-An analysis of a list of tallow, tallow substitutes and adhesive sizes to add to starch shows eye-opening II. Tests of the Uniformity and results. Some are all right, but Some are built on recognizing that almost anything harmless can pass the sort of test made in some mills

A real comparative test of the value of two sizing materials, if the type of equipment used is imperfect, should start with careful allowance for all the possible unequal factors that incompleteness of the equipment can cause in sizing two sets of warps for comparison The raw starches and other ingredients should be weighed, not measured, since their physical forms may differ enough to make given measures unequal in weight. A record of the two sets of formulas employed and of percentages of size added should be kept, and the size weights compared with the cloth weights after filling weights are deducted While great weight added and retained may not be desired, the figures will show just how much size is giving the two weaving results. and how much is retained desnite the chafing in the loom. If possible specially weighed lots of filling off the same doff ought to be used in weaving the warps to be compared

The weave test is the test, but it often here that the least care is taken in getting at the actual facts The general appearance of the looms will show something, but only in extreme cases. The operative may be asked whether the loom or looms is running all right, or the size room may simply wait for "back firing." If no back fire comes the warps were "fine," if it comes they were poor. Between the extremes however, there are degrees of goodness in weaving that few, if any operatives can gauge. Detailed tests run on two sets of looms under ideal conditions showed differences in production up to 4 per cent that were invisible to the operatives Often a great percentage might past The safe way is to pick certain looms and have an exact record of breakages made over a definite period. This record in conafter a chemical test showing them junction with an exact record of cloth taken off the looms between ing some probability of their use-definite periods measured for each fulness. In the case of new sizing loom will show comparisons that products every chemist, knowing as can be relied on. If tests are worth he does, the limits to laboratory running at all, they are worth this

> With proper equipment, known ing process can be put on as exact and dependable a basis as any other process in cotton manufacture

He Did.

The hour was late and the young new products, has trusted to the men at the dance had removed their

One girl present, fearing for her is infallible only if it is the very dainty gown as she glanced at the painstaking detailed test that it sel-moist hands of her perspiring part-dom is, and lands mouths later with ner, said shly: "Pardon me, would loss you mind using your handkerchief?"

The young man hastily blew out avoided. A chemical test often his handkerchief and blew his nose.

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A. T. Bradlee before National Association of Cotton Manufacturers

amount of work has been done by that committee in regard to cloth and a standard sale note for cloth and the increasing competition of this Association but I think I am correct in stating that it has not come into general use. This may be partly attributed to the condi-tions of trade prevailing in the last few years and the desire to put no possible obstacle in the way of making a sale, for, as one manufacturer stated to the writer, "any sale today looks good to me, I don't "any care what form it is written on." Undoubtedly trade conditions have fundamental obstacles which have specifications. prevailed and which will continue to prevail until we have more gen-

We cannot have a standard sale note until we have a standard which to make the sale note. That standard must not be the standard of the seller nor the standard of the buyer, nor can it be a standard of compromise. It must be a standard of fact and, gentlemen, we do not today know the facts. One or two individuals of this Association have made some investigations in the past and are now making certain other investigations along this line. They are blazing the way but this work of ascertaining the fact should not be left to an individual or individuals. who, as a rule, can only give it spasmodic attention. It should be taken up by some public body of recognized strength and national reputation;-a body which by its very standing in the community would be the natural authority for such facts. In good times or bad times a buyer or a seller may well hesitate to sign a sale note containing a lot of conditions about which he is ignorant and about which he has easy way of ascertaining the

few years ago this Associa- tablish for this country proper one of the textile schools has stated natural condition and did not show tion appointed a committee standards for the testing of cotton as I understand it, that the extreme its natural break. When put into to look into the question of yarn and fabric along similar lines has been adopted and endorsed by our times this standardization has in my opinion, are not based on fact got to come and on this work National Association of Cotton Manufactures, the oldest and the strongest organization of the cotton trade, should not allow any other organization to get ahead of it. The United States Government at Washington, in their Department of Commerce and Labor, are carrying on splendid tests at the present time on just these lines with the idea of drawing up specifications for Govhindered the adoption of the cloth ernment purchases and the testing sale note but, in my opinion, far of those purchases when received ahead of any such reasons are other to see that they are up to those They have adequate laboratories fitted up for this special work and they are endeavoring to eral enlightenment on the subject do the work on strictly scientific with which we are dealing. Ines. They realize, however, that are not manufacturers, they they have shown every desire and wish to co-operate with us. I have who have the work in charge: I have seen the laboratories and on behalf of your committee I am doing what I can to co-operate with them but as a representative of The National Association I am ashamed when they ask me for our standards and our reasons for adopting them for, what are our standards, what real facts based?

The Yarn Sub-Committee, which I am a member, has hesily because our early meetings showof a contract. On the proper or aland breaking strength of the prop-

variation from count should be, one the is only one per cent. Such reports, press such views what can we exall familiar with their manufacture. Still less can we expect in-telligent verdicts from ordinary juries on textile cases under trial in the courts

We publish tables of standard breaking strength and we talk of breaking strength and size as if they were practically constant in the same bobbin or the same skein ignoring absolutely the hygroscopic condition of the yarn at the time of testing. This is all wrong. Compartests for breaking strength and, to a less extent, tests for size are of no value whatever unless we know that the hygroscopic condition of the yarn at the time of testing is the same in each instance talked with the Government officials A few weeks ago a large manufacturer wrote to my firm that from all spinners he was finding a great deterioration in the strength of the yarns he was then receiving over those of last summer, and that spinners had attributed it to the the greater strength of last season's cotton.

Now, this explanation was perhave we got to give them and on haps partially true, but the real what authority are those facts reason for the difference was due to the fact that the yarn tested was of in an absolutely different condition regards humidity and it was the tated in their work, partly awaiting difference in such condition that the developments of the situation caused the apparent great deteriorthat with the cloth contract but especial- ation in strength. In the summer his tests were made in a room ed wide divergence of opinion as to where, by open windows and natuthe fundamental facts necessary for ral causes, the atmosphere and the trade were enlightened. Foreign even a start on the standardization yarn itself contained approximate- countries have for years been eduly the natural moisture of the outlowable variation in count, twist side air,-while recent tests were made in an atmosphere taken into er humidity conditions under which the building at around zero de-yarn should be tested, you can ask grees of temperature and artificialyarn should be tested, you can ask grees of temperature and artificial—with the result of much elimination a dozen manufacturers with as many ly heated to about 70 degrees, with of controversy between buyer and The time is ripe for some organi- replies and hardly any reply will be its natural moisture evaporated and zation connected with the textile based on any real correct investiga- the yarn exposed to this atmosphere trade to take up this work and es- tion of the facts. A professor of was equally dry. It was not in its

When put into a standard sale note. A large to those by which they have been mmber either way but one number strength was re-established and the of work has been done by established in foreign countries. on a No. 10 yarn is 10 per cent trouble was gone. The manufactummittee in regard to cloth With the new demands of trade while one number on a No. 100s yarn rer was assomished; it was an ensame condition tirely new thought to him.

When I state to you that the half The and yet if such people as this ex- dozen skeins of yarn that had been in an office building for a few days pect from the ordinary buyer, who broke at an average of 83 pounds textile products but is not at and the same skeins after being exposed for a night to a damp outside atmosphere, protected from rain. broke on the same machine and by the same operator at an average of 93 pounds, and a cone of yarn under a regain condition of 6 1-2 per cent broke at 87 1-2 pounds, while the same cone when transferred into an 8 1-2 per cent regain condition increased in break to 103.3 pounds, a difference of 18.19 per cent, you will see the futility of comparative tests when conditions are disregarded.

There is no doubt but what thousands of pounds of yarn and cloth have been rejected and returned by honest buyers through such mis-leading tests and for a buyer to buy or a seller to sell yarn on a guaranteed breaking strength is worse folly, unless they know conditions under which those tests are to be made. Yet this is common practice. When the United States Government write me that the same reeling shows a difference in size of the yarn of over 5 per cent between tests made under 45 per cent and those made under 85 per cent humidity, you will see also the necessity of knowing the hygroscopic condition of the yarn in times of dispute as to its sizing.

There is a woeful lack of knowledge on this subject among spinners as wells as users of yarn in this country and it is time that countries have for years been educating along these lines, both the manufactures of textile products and the users of textile products, seller, and when such controversies

(Continued on Next Page)

W. H. BIGELOW

AGENTS FOR

ASHWORTH BROTHERS

Tempered and Side Ground Card Clothing

Tops Reclothed. Lickerins Rewound. Cotton Mill Machinery Repaired.

12 to 18 West 4th St., Charlotte, N. C.

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DISCUSSIONS BY PRACTICAL MEN

Answer to Enquirer.

Editor:

I notice that "Enquirer" wants to know what size ring, traverse and guage to use for 10's hosiery yarn.

I would use a 2-inch ring, 3 3-4-inch guage and a 7-inch traverse. This may be radical but will run and show results. R. S.

Questions For Carders.

I nave a number of cards on which the flats for about one inch on each end, stay clogged up with dirty looking waste. The rest of the flat strips are clean and look all right. Will some one give the cause and remedy for the trouble? When I took this room oil had been allowed to leak on about 9 of the cards. I stopped the leaking, but would like to know how to counteract the effect of the oil.

I will appreciate an answer to the above questions.

Remedy Hunter.

100 Per Cent Efficient.

Franklin H. Wentworth, Secretary of the National Fire Protection Association, stated at the meeting of the New England Foundrymen's Association, April 10th, that out of more than 11,000 fires under automatic sprinklers, of which the as-sociation had records during the past fifteen years, there was not single instance where the automatic of the roving on the bobbins. sprinkler, when of standard, approvunder it, except in cases where the system had been tampered with, or crippled by an explosion.

New Idea in Humidifying.

The Aragon and Arcade Mills of Rock Hill, S. C., are trying a new plan of humidifying by which they hope to obtain a condition of humidity more nearly like natural conditions existing in England.

The plan on trial is the installation of humidifiers on the outside of the mill walls opposite windows. Thus, practically all air coming in through these windows is already laden with the proper moisture and is cool and fresh.

The outcome of this plan on trial is being watched at these mills with a great deal of interest. Mill men in general will be interested in the idea, as it may prove a decided advancement over systems of humidification now in use in this country.

These mills are under the manage ment of J. A. Long, who is president respectively of both mills.

Invents Roving Clamp.

of Fletcher C. Graddiek, Albemarle, N. C., has received letters of patent from the office at Washing-

spinners of the country. The in- than most carders understand. vention is known as a roving clamp and has reference to improvements in or relating to spinning or twistframes wherein provision made for effecting a second breakage at the receiving side of the drawing rolls of a roving or thread which has previously broken at the delivery side of the rolls. In working the machinery now in use in all spinning mills of the country a thread breaks and machine con-tinues to feed, accumulating the roving until the operative happens to discover the breakage and remedies the trouble. This machinery automatically cuts the thread case of breakage and stops all accumulation of waste, thus saving the cotton and extra labor in removing waste from the machine. I seems to be a very valuable invention, and although the patent has just been issued Mr. Graddick only has been the recipient of a number of flattering commendations from mill men.

Answer to Young Carder.

Editor.

I notice the question of "Young Carder" as to the reason for cones on roving frames being concave and convex and will say that it is a question that has puzzled many young men.

First I will say that the object of the cones is to regulate the winding

We must wind on the bobbins the ed make and installation, had failed same length of roving as is deliver- so-called systematizing of business to put out or hold in check a fire ered by the front roll and must do of today is developing the idea of at a uniform speed to prevent

the ends becoming slack.
As the diameter of the bobbins increase at each change of traverse the speed of the bobbin must be decreased in a constant ratio.

It can be proved by mathematics that a straight tape would not reduce the speed of the lower cone in the proper differentiation to the traverse of the cone belt and that it requires conecal surfaces to produce the desired results.

It is a matter of calculation which can be derived from the length of axis, greatest diameter of driving

It requires what is known as parabolic curve to produce the right ratio of bobbin speed as the belt is moved equal distances along the axis of the cone.

The cones must be so constructed that in shifting the belt toward the small end of the top cone, the num-ber of revolutions of the driven cone must decrease in the same proportion as the distance the belt been moved. The two cones must be equidistant at all points, or, ex-actly parallel and the sum of their diameters must be equal at any position of the belt.

I could explain to "Young Carder" with a drawing exactly how the ton for a machine which is destined shape of the cone is laid out, but it On account of my personal con- as in France, Germany, Holland to work a great saving to the cotton would require more mathematics nection with the Massachusetts In- Turkey, India and other countries.

Student.

Standards of Cotton Yarn.

(Continued on Page 8.)

arise they offer the means of their practical and peaceful solu-tion through established authorities:

1st. The conditioning house where tests can be conducted under uniform conditions known alike to the buyer and seller.

2nd. By tribunals of arbitration founded on the work of those conditioning houses.

In England they have a sale note for cotton yarn.

All that it says about count. strength, twist, etc., is as follows:

"In case of dispute as to counts length, weight, or condition, the yarn shall be tested by and according to the rules of the Manchester Testing House, and its certificates shall be binding on both parties, whe however, shall have the right to be represented when the samples to be tested are drawn.

"Either buyer or seller has the right to ask the Manchester Testing House to repeat the test, and in that case the average result of the tests shall be taken as final and binding on both parties."

The Manchester Testing House, as you see, is the recognized authority Their tests are made under certain published. standard conditions What are the standard conditions in this country for making tests? Who is the recognized authority? The specifications for buying. specifications are usually drawn up by the system expert, by chemists or others, who know nothing about the principle of textile manufacture who naturally turn out specifications that are impossible of fulfillment or unjust to the spinner. In fact, the most of these specifications call for the yarn or cloth to stand the test on buyer's apparatus as he may decide to test it, without any information as to what apparatus or under what conditions the tests are made.

It is a wonder that we have disputes and differences between the tests of the manufacturer and those of the buyer. They must always exist until some uniform system under uniform conditions is adopted by the trade. The way- to do this is to establish a national conditioning house and laboratory for this country similar to the Manchester Testing House. I believe it should be established by and be under the control of this Association as a recognized authority, first, to establish the uniform conditions to be adopted and then to spread its information before the entire trade with its reasons for adopting the standards, as does the Manchester Testing House.*

stitute of Technology I have been able to arrange during the past two years for certain experiments and theses on this subject by graduating students, but these have necessarily been very incomplete be-cause of the small amount of time that can be given to them and because of the lack of the exact kind a laboratory necessary for the work. I do not speak with authority, but I believe the Institute would welcome the fitting up by this Association of such a laboratory in their new buildings about to be erected, and that they would then, if desired, furnish for a nominal sum trained experts to make such test: from time to time as would be nec-

I am aware that there are many who do not believe in such innova-The methods of the past have been good enough for our fathers, they should be good enough for us, but, gentlemen, scientific methods in all forms of business are pushing to the front with rapid strides. The Institute of Technology of which I have spoken, a strict-ly scientific school, is only fifty years old but today it is recognized as one of the greatest schools in the world. It is in step with the times and in the more severe competition that awaits us, we, of the cotton manufacturing trade, get in step also. We cannot know too much about our business and for the honest manufacturer it is well that the buyer of his goods should be equally posted. I believe that there was never greater honesty in business as a whole than there is today, and that most of the differences of the textile business arise through ignorance of the rea conditions and the real troubles in dispute. I am sure that the establishment of a national laboratory and conditioning house would help smooth the paths of all of us. must come some time. Is it not time now and is not this the Association to establish it and to make it the authority of the trade?

Until that is done by this Association or someone else we can expect little from a standard contract other than in mere details of tare selling terms, etc., about which we have now few disputes. On the important matters we can each form our own individual standard but neither you nor I nor any committee of us can form standards for others to abide by until we have recognized public facilities for es tablishing what those standards shall be and open up for easy access to the buyer and the seller alike the same facilities for their OWI conviction as to the justice of the standards so adopted.

*At that Testing House tests are carried out not only for firms and indivduals in Manchester, but in all parts of Great Britain, as well in France, Germany, Holland,

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THURSDAY, APRIL 25

The Textile Exhibit.

The Speed Mania.

The Textile Exhibitors Associachanics Hall, Boston, Mass.

tire week and is the largest thing neath the waters of the ocean. of its kind ever held in this country and of considerable more magnitude week, was heralded as the perfec- when the last life boat had left than a similar exhibit which was tion of ship building. held two years ago.

booths and each exhibitor while as long as three city blocks and her minute the strains of "Nearer, My limited by space to a few machines twelve decks towered above the God, to Thee," played by the heroic period of last year. has endeavored to present those ocean to the height of a modern band of the ship, were wafted which show the highest develop- skyscraper. ment in its line. The progress of were unknown two years ago.

The cotton manufacturers who are indeed fortunate as such a colly gathered together.

Somehow the things that "can not tion are this week holding an ex- happen" do happen. The building hibit of textile machinery, mill sup- which is fire proof burns down, the plies and general textiles in Me- bridge which can not fall is swept away by the mighty flood and the The exhibit will be open the en- ship which can not sink lies be-

The Titanic, which went down last larger than any of the other great the terrible details. The exhibits are arranged in ships, being 802 feet in length, or

The equipment was luxurious in the past two years in the develop- the extreme and so powerful were hundred feet in the air like a giant ment and improvement of textile here engines that, when she left finger of scorn pointing at the folly machinery will be very clearly Southampton, the mere suction of of the age, the great Titanic startshown by this exhibit as not only her propellers caused two great ed head first on its last journey and are new models of old machines ships to break giant hawsers and be now lies a flattened mass along the shown but many are present which drawn away from the docks to bottom of the ocean. which they were fastened.

danger of iceburgs, two more boilers was sweet.

break a record was a feat meant day, tomorrow we will be building of a speed crazed world. The offi- and faster. cers and the passengers swelled boasted of the inability of the rain icebergs are somewhere near. the wind and the ice to do her inand invulnerable?

hand rose from out the sea, and which is paid for passage. running an icy finger along her great lesson to be learned from beyond the sight of man she will likely they may seem. lie for eternity an object of curiosity to the monsters and low animal life which are said to inhabit those regions

While the curtain slowly descendsouls of men and showed the meta' of which they are made. A few cowards were there and they are trying now to explain to the world how they escaped but the heroism of the men on the Titanic will ring down through the ages.

"Women and children first-and then hell" is the law of the sea and never was it better observed than on that memorable night.

It is a creed based upon the formula that the mothers of the race must first be saved and after that the strongest men are the fittest to survive.

equipped that the price of one suite of rooms was \$1,480 for one voyage and yet over half the life boats davits had never been equipped with boats and the price of that neglect is 1,600 human lives.

The picture of those doomed mer She was has been given to the world with all

> They tell us that even to the last across the waters of that icy sea.

> Then with its stern raised two

A \$10,000,000 ship lies there, with The first day this express train a \$10,000,000 cargo and grouped were able to attend this convention of the deep made 480 miles and the around it like sentinels with glassy cotton handled at ports and oversecond day covered 516. The third eyes staring upward through un- land based on official returns of the day 564 miles were passed and, al- fathomable depths are sixteen hunlection of machinery has been rare- though warned by wireless of the dred man and women to whom life the exchanges and exports at ports,

were started and she was driver. This is the price that has been hell bent through the darkness for paid for speed and while we shudder a record was to be broken and to and turn aside to shed a tear toto win the patronage and the gold new Titanic, but it will be larger

And when she plows through the with pride as they trod the decks ocean it will be "full speed ahead" of the greatest ship afloat and for records must be broken even if

We are living in an age of speed jury ,for was she not unsinkable mania, and the fastest automobile. the fastest train and the fastest ship And even as they boasted a giant are the ones which get the gold The pasteboard sides, sent her a crum- the loss of the Titanic is that things pled mass, down to the quiet for- "can happen" and emergencies ests of the ocean where two miles should be prepared for however un-

Board of Equilization Meets.

Comptroller General Jones has issued a call for the South Carolina State board of equlization to meet in Columbia, S. C., on May 2, when the textile industries of the State, including the cotton mills, cotton oil mills, and fertilizer factories will be assessed for taxation. The assessment is on a basis of 50 per cent of the actual value as fixed by the

The report of last year showed that there were 170 textile plants in the State with a capital stock at par, valued at \$60,084, 850. The market value was \$53,056,428 The actual value as fixed by the board was \$55,-625,608. The board placed the assessment at 50 per cent or \$27,812,-

The Titanic was so luxuriously Secretary Hester's Report on Weight of Cotton Bales.

New Orleans.—Secretary Hester has issued a statement of weights of 11,695,047 bales of cotton handled at ports and across the Mississippi, Ohio and Potomac rivers overland to American manufacturers out of the cotton belt during the months of September to March, inclusive, showing an average per bale of 518.77 pounds against 516.84 for the same

The State averages are: Texas ports 528.02 against 527.90 last year: Louisiana ports 526.26 against 522.02 last year; Alabama ports 528.54 against 524.74 last year; Georgia ports 510,62 against 500.22 last year: South Carolina ports 497 against 485 last year; North Carolina ports 490 against 490 last year; Virginia ports 490 against 490 last year; Tennessee, etc., 529.19 against 527.25 last year

These averages are as stated, of secretaries and superintendents of etc., in the States named.

PERSONAL NEWS

- J. W. Moore of Inman, S. C., has moved to Columbia, S. C.
- R. N. Cobb has moved from Williamston, S. C., to Greer, S. C.
- Z. V. Gray is now overseer of spinning at the Springstein Mill, Chester
- as section hand in the Brown Mill. Concord, N. C.
- W. A. Foil, of Concord, N. C., has ville, S. C. completed his contract for doing the excavating work at Whitmire, S. C.
- B. K. McCuen has accepted position as overseer of carding and spinning at the Fairmont (S. C.) Mfg. Co
- J. B. Johnson has resigned his position in the office of the Fairmont (S. C.) Mfg. Co.
- W. J. Autin has accepted position as overseer of carding at the Green River Mfg. Co., Tuxedo, N. C.
- . C. Martin is now overseer of cloth room at the Laurens (S. C.) Cotton Mill.
- R. L. Howe is now overseer of arding at the Arcade Mills, Rock Hill, S. C.
- J. E. Finlayson is now overseer of carding at the Martinsville (Va.)
- R. B. Hunt is now overseer of spinning, spooling and twisting at the LaGrange (Ga.) Cotton Mills.
- J. A. Adams is now overseer of sition at Cherryville, N. C., and is iarding at the Merrimac Mills, now located at Dania, Fla. Huntsville, Ala.
- spinning, spooling and twisting af ville, S. C. the Columbus (Ga.) Mfg. Co.
- of the shipping and finishing rooms at the Twine Mill, Roanoke, Va.
- J. E. Thompson has accepted po-Pacolet Mfg. Co. No. 4. New Holland, Ga.

- D. P. Pritchet is now overseer of weaving at the Elizabeth Mills, Egan.
- A. Williams is now overhauling carding and spinning at the Globe Mill, Augusta, Ga.
- J. D. Bacon has resigned his posi-J. W. Rabor has accepted position dale Mill, Burlington, N. C.
 - H. Campbell is now second hand in carding at the Monaghan Mill, Green-
 - C. R. Daly has resigned as second hand in spinning at the Wiscasset Mill No. 2, Albemarle, N. C.
 - W. L. Gaston has resigned his position as overseer of weaving at the Apalache Mill, Arlington, S. C.
 - has been located at Winston-Salem, same place. N. C., has moved to Atlanta, Ga.
 - in spinning at the Hoskins Mill, Charlotte, N. C.
 - John May has resigned his position as loom fixer at the Springstein Mill, Chester, S. C.
 - J. H. Moore, of Concord, N. C., has accepted position as overseer slashing at the Highland Park Mill No. 3, Charlotte, N. C.
 - A. Newsome has resigned his position as overseer of weaving at Union Cotton Mills, Lafayette, Ga.
 - E. T. Ponder has resigned his po-
 - W. T. Glenn is now chief engi-E. Blair is now overseer of neer and master mechanic at Gold- position as section hand in spinning
 - J. T. Wilson has resigned as man-J. Christly is now in charge ager of the Gaffney (S. C.) Mfg. Co.'s store and has gone into business at Wellford, S. C.
- sition as overseer of cloth room at from section hand to second hand No. 2, Albemarle, N. C.

- SPINNING CARDS DRAWING FRAMES COTTON MILL MACHINERY MASON MACHINE WORKS TAUNTON, MASS. BDWIN HOWARD, Southern Agent Charlotte. N. C. *IULES* LOOMS LAP MACHINES
- W. H. Dupre, from the Buck Creek
- J. P. Cooper, former receiver of the Trion (Ga.) Mfg. Co., is in New York in the interest of that com-
- J. W. Willis has been promoted from section hand to overseer of reaving at the Bamberg (S. C.) Cotton Mill.
- J. W. Caston, from Arcade Mills, Rock Hill, S. C., is now fixing looms D. R. Hinkle, who for some time at Highland Park Mill No. 2, of the
- A. E. Helton, from the Icemorlee W. L. Mullis is now second hand Mills, Monroe, N. C., is now overseer of spinning at the Rhodes Mfg. Co., Lincolnton, N. C.
 - H. W. Vanpatten, of Aragon, Ga., has accepted position as overseer of weaving at the Echota Mills, Calhoun, Ga.

James Gates, overseer of carding at Mill No. 2, of the Fort Mill (S. C.) Mfg. Co., has been transferred to a similar position at Mill No. 11

- L. H. Quinn has resigned his position as overseer of carding at the Vivian and Howell Mfg. Co., Cherryville, N. C.
- H. L. Sedberry has resigned his at the Erwin Mills, Cooleemee, N. C. and accepted position as overseer of spinning at the Brander Mill, Concord, N. C.

George E. Barlow, formerly with the Piedmont (Ala.) office of the S. G. Howard has been promoted Coosa River Spinning Co., has been elected secretary and treasurer of of spinning at the Wiscassett Mill the Atlantic and Gulf Mills, Quitman, Ga.

- T. H. Rothrock, a preacher of Gold Mills, Siluria, Ala., is now machinist Hill, N. G., has accepted position in at the Central Mills, Sylacauga, Ala. the knitting department of the Wisthe knitting department of the Wiscassett Mill, Albemarle, N. C.
 - G R. Johnson has resigned as second hand at the Whitman Mills, New Bedford, Mass., and accepted position as overseer of carding at the Alta Vista (Va.) Cotton Mills.

Forest Mayer, formerly hand in the weave room at Granby Mills, Columbia, S. C., is now over-seer of weaving at the Fairfield Mills, Winnsboro, S. C.

- A. W. Pitts, who recently resigned as overseer of carding at the Buck Creek Mills, Siluria, Ala., has acceptsimilar position at (Texas) Cotton Mills. at the Bonham
- W. B. Warren, from the Chadwick-Hoskins Mill No. 3, Charlotte, N. C., has accepted position as overseer of spinning at the Jewell Mill, Thomasville, N. C.
- W. N. Darby has resigned as overseer of carding at the Walton Mills Monroe, Ga., and accepted similar position at the Panola Mill, Greenwood, S. C.
- B. F. Gladden has resigned as second hand in carding at the Avon Mill, Gastonia, and accepted position as overseer of weaving at the Dorothy Mfg. Co., Dallas, N. C.
- J. M. Davis, superintendent of the Newberry (S. C.) Cotton Mills, is in Boston this week visiting the textile machinery exhibit at the meeting of the Textile Exhibitors Association.
- H. A. Coker has resigned his position as overseer of carding at the Walton Mills, Monroe, Ga., to accept similar position with the Millstead (Ga.) Mills.

OVERFLOW PERSONALS PAGE 16



CAPACITY 1000 POUNDS LINT PER HOUR.

The C. O. B. Machine

Cleans, Opens, Blooms all Grades of Cotton

NO BEATERS-nothing to injure the cotton-The simplest opening and cleaning machine on the market. Do away with your mixing bins.

Cotton cleaned by the Air Process-Opened and Bloomed ready for the Pickers.

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EMPIRE DUPLEX GIN COMPANY, 68 William St., New York

Southern Representative

ATLANTA EQUIPMENT CO., Atlanta, Ga. Send for Catalog. Write us, we will answer.

MILL NEWS ITEMS OF INTEREST

Columbus, Ga.-At a meeting of the local cotton manufacturers held

Mills have installed the Kinkead apparatus for the alignment of the shafting.

Fairmont, S. C .- The Fairmont Manufacturing Co. is installing an additional 140 new dobby heads, thereby changing the remainder of the plain looms to fancy work.

Cooleemee, N. C .- The Erwin Cotton Mills were closed down a couple of days last week in order that a portion of the dam over the river might be raised.

Columbia, S. C .- The stockholders of the Capital City, Granby and Richland Cotton Mills, all of this city, have been notified of a special meeting to be held here on May

Cherryville, N. C.-J. S. P. Carpenter and D. A. Rudisill are installing ice manufacturing plant at the Melville Mill, the cost of the plant to be about \$2,100.

Wyoming, R. L.-The Wyoming Yarn Co., manufacturers of woolen yarn, have received an order from the Ashaway Woolen Co., Ashaway, which will enable them to start operations at once.

Concord, N. C.—One of the houses at the Young-Hartsell Mill, occupied by G. E. Starnes was totally destroyed by fire last week. The house was the property of the mill company and was fully insured.

Louisville, Ky .- Articles of incorporation have been filed by the Marvel Underwear Co. The incorporators of the new concern, which is capitalized at \$10,000, are E. O. Bol and Martin A. Seward.

Grafton, W. Va .- The capital stock of the Webster Woolen Mills, of this place, is to be increased. This company now operates an equipment of 11 broad looms, dyeing and finishing equipment driven by steam power

Cornelius, N. C .- It is reported that a cotton manufacturing plant is to be established at this place Details have not as yet been an the Hygnounced. R. J. Stough is interested months. in the new concern.

at this place is still standing idle as of the Norris Cotton Mills Comresult of the flood of several is being repaired as rapidly as possible and operations will be resumed as soon as this work is complet-

Norfolk, Va .- The Norfolk Silk

Evansville, Ind. — Announcement has been made that the Evansville Woolen Mills, recently closed because of bankruptcy proceedings, as noted, will start up soon, and 100 operatives.

Oxford, N. C .- H. W. Shaw is contemplating the erection of a plant practicable. for the manufacture of carpets for buggy bottoms. He has cost of machinery and equipment.

Greenville, S. C.—For the first time lights were turned on at the new Dunean Mill village last week. mill will be ready for operation plants. shortly. It will make lawns, linens and the finer grade of goods. Capt. J. Adger Smyth is president.

Lumberton, N. C .- The new ma ginning to arrive and is being installed As was previously mentioned, this new equipment includes cards, etc.

Lumberton, N. C .- Dividends of 5 and 2 per cent, respectively, were declared at quarterly meetings of the directors of the Lumberton and Dresden Cotton mills held recently The quarterly meeting of the Jennings Cotton Mills was also held the heavy electrical storm. Only last week

St. Louis, Mo.-Articles of incorporation have been issued to the Good Stocking Company of this city The new concern will have a capital stock of \$25,000 and will engage in the manufacture of hosiery. Those applying for the charter were: C. C. Connor, P. L. Turley and John S. Maichester.

Rock Hill, S. C .- The Manchester Mills have placed a repeat order with John W. Fries, of Winston-Salem, N. C., through his representa-tive, John E. Schott, of Charlotte, for 12 additional Hygrosso heads. This company has had 14 heads of the Hygrosso in operation for 14

Catecchee, S. C .- An enlargement Roanoke Rapids, N. C .- The mill is now being made to the power dam pany, and equipment for the develweeks ago, at which time part of opment of hydro-electric power the plant of the Roanoke Mill was will be installed. The mill will then washed away. The damaged portion operate on the electric dirve. At present this company operates electric power being used.

Anderson, Mills at Lambert's Point which have houses at the Anderson Cotton Mills cavating for the addition to the spinhere May 4 was officially announced been closed for some time will re- were destroyed by fire last week, ning room of the No. 1 Highland as factory picnic day in Columbus, sume operations on Monday with Both buildings were practically con- Park Mill has already begun. The former Manager E. Goldsmith in sumed though part of the house- new building, which is to join the hold effects were saved in both old one, is to be 136 feet long by 125

> Dublin, Ga.—The Georgia Cotton Mills here have been purchased by the Eastman Cotton Mills, of East-The consideration is reported ployment will be given more than to have been in the neighborhood of \$100,000. It is understood that the Eastman Cotton Mills will put the No. 1 mill. local plant in operation as soon as

Stonewall, Miss.—The Stonewall electric power and wants informa- Cotton Mills have decided to protion from experienced men on the duce a finished fabric and are now erecting extensive dyeing and ilnishing plants. The company formerly produced a coarse grade on from many physicians at the State cloth and in the future this will be medical convention in session here The dyed and finished at their own

Easley, S. C.—The addition to the Glenwood Cotton Mills is now well under way. All of the excavating has been finished and a large part chinery recently contracted for by of the concrete work is also com-the Jennings Mill, as noted, is be-plete. As soon as the weather perplete. As soon as the weather permits contractors will begin laying the brick. It has been stated by the officials of the company that 2,000 spindles and accompanying they will be ready to spin the coming crop of cotton.

> Columbus, Ga .- The manufacturing plants using electricity to opertheir machinery were compelled to close down for a while this week as the Columbus Power Company closed down part of its plant during about one hour's time was lost. river at the Dillingham street bridge stood at 26 feet at 2:30 o'clock in the afternoon.

> Salisbury, N. C .- The Princeton, formerly the Grace, the new mill to be operated by M. L. Jackson, T. B. Marsh and Gilbert Hambley, will soon begin the manufacture of all grades of table damask, and when in full swing will give employment to quite a number of skilled work-men. Frank L. Robbins, who for-merly operated and managed this plant, before it shut down, is at work with a force of hands getting the machinery and plant in shape to begin active operation.

> of the factory and property of the Trion Mfg. Company has been made in accordance with the terms agreed upon at the recent meeting of the creditors and signed by Referee W Rowell.

After a search of the bankruptcy law, no provision was found allowing a sale on credit, or partly on credit, therefore the terms of the equipment of 18,228 ring spindles sale will be cash. This is the only and 452 braid looms, both steam and change from the plan previously agreed upon.

Charlotte, N. C .- The work of exfeet wide, and will also extend back to connect with the weaving room Eight thousand spindles are to be added in addition to the 7,000 which are now in operation at this mill. The additional 8,000 spindles are being put in order to supply the demands of the looms operated at the

Chattanooga, Tenn.-The Southern Aseptic Cotton Company, recently organized at this city, has begun the manufacture of absorbent cotton and cotton gauze. The new concern started with a small equipment. but having received highest praise last week, have ordered machinery for a permanent plant, which will be completed at an early date. R. T. Cameron is president of the company and the sales department is in charge of E. E. Jenkins. Other officers are J. D. Cunningham and G

Rhodhiss, N. C.—Contracts for the erection of the Smith Manufacturing Company have been awarded to the Fiske Carter Construction Company, of Worcester, Mass., the contract having been sucured through their Southern office at Greenville, S. C. The plans for this new mill were drawn up by the Shand Engineering Co., of Columbia, S. C.

The contract price was not given out. It has been generally understood that the cost of the mill will be in the neighborhood of \$500,000. According to the terms of the agreement the work is to be completed within six months

Spartanburg, S. C .- C. Newman intends to go into the overall manufacturing business here. propositions have been made him, but he expects to establish his factory at Spartanburg Junction This will be a convenient location on account of the railroad facilities.

Darlington, S. C.—All of the old style looms at the Darlington Mfg. Co, will be replaced by automatic The Draper Company, of Trion, Ga.—An order for the sale contract for the new looms. contract calls for two hundred 40-inch looms. Two hundred 36-inch looms, now in operation, will be removed to allow space for the new looms. The latter will be equipped for the production of fancy fabrics J. E. Sirrine, of Greenville, S. C., is the engineer-architect in charge of the improvements and additions to the plant. At present the Darlington company operates an equip-ment of 52,000 ring spindles and accompanying machinery.

Jackson, Miss.-It is reported here that S. N. Thomas is planning the erection of a plant in this city for the manufacture of underwear. It is expected that operations will be started in the near future and that employment will be given to from 35 to 40 operatives. It is stated that additions and improvements to enlarge the capacity of the plant will be made next fall. The product will be marketed through a number of stores in which Mr. Thomas is interested, as well as other retail establishments.

Danville, Va .- No further details have been announced concerning the improvements and additions to be made at the Dan River and River-side Cotton Mills. As stated last week, the directors of the company have authorized the president, R. A. Schoolfield, to secure plans and inyest \$1,500,000 for new buildings and additional machinery for the manufacture of cotton goods. It is reported that the addition will include 70,000 spindles, which when installed, will give the company a total of 300,000 spindles. An addition of 2,000 looms will also be made to the 7,383 now in operation.

Mill Store Damaged By Fire.

The store at the Massachusetts Mills, Lindale, Ga., caught fire at an early hour one morning last week but was almost extinguished by the automatic fire extinguishers before was discovered. The damage to the fixtures and stock is about \$2,000 which is fully covered by insurance.

The store building, which is owned by the mill company is, like the rest of the mill buildings, equipped with automatic fire extinguishers which worked promptly and prob-ably averted the loss of the building.

Cotton Mill Sold.

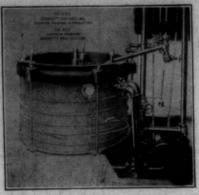
Yorkville, S. C .- The Tavora Cotton Mill at this place was sold at auction last week at the upset price of \$25,000. There was only one bid that of the bond holders. The mill is said to be in fine physical condition and will be operated under the management of Walter B. Moore who also operates the Neely Mfg. Co. and the Lockmore Mill, both located within the incorporate limits of the town. town. A new charter has been granted and the new corporation will be known as the Tevora Mill the letter "e" being substituted for in the old name

The mill will have a capital stock of \$40,000. The petitioners are: W B. Moore, S. M. McNeel, M. W. White J. B. Pegram and J. M. Starr.

Economical Cotton Dveing and Bleaching

In the Psarski Dyeing Machine

Saves Labor Saves Dyes Saves Drugs Saves Steam Saves Water



Saves **Fibre**



Sulphur-Developed-Vat Dyes Done Equally Well

RAW STOCK DYEING. The cotten goes to cards in as

BLEACHING Blesched and washed PERFECTLY CLEAN—FREE FROM CHLORIN OR ACID.

3% hours to batch. Is not pounded and twisted into practically waste.

SKEIN DYEING No Boiling Out—No Tangles—Yarns are left Smooth and in perfect condition for winding, knitting, etc. HOSIERY Recommended size of machine does 300 pounds to batch, SULPHUR OR DEVELOPED BLACKS. It is not Roughed—No Singuing required—No Sorting—No Damaged,

15 to 20 per cent Saving in Drugs

The Psarski Dyeing Machine Co. CLEVELAND, OHIO 3167 Fulton Road

WILLIAM INMAN, Agent 364 Newport Avenue Milwaukee, Wis.

R. D. BOOTH, Agent 118 Ocean Avenue Atlantic City, N. J.

The Byrd Knotter Price \$20.00 Simple of Operation **DurabilityGuaranteed** Small Repair Cost Byrd Manufacturing Co. DURHAM, N. C.

Drowned in Mill Pond.

John Waldrop, the young son of Mr. and Mrs. D. W. Walrop, was drowned in the pond at the Beau-mont Mill, Spartanburg, S. C., last week. He, in company with his 9year-old brother, was playing near the edge of the pond and while in the act of throwing a board into the water, slipped and fell in His brother ran for help, but the child was drowned before assistance arrived. The body was recovered about 50 minutes later.

Power Companies Use Mutual Basis of Power Supply.

Negotiations have been closed between the Southern Power Company and the Yadkin River Power Company, whereby they have agreed upon a mutual basis of power supply, their lines connecting between Raleigh and Durham, N. C. The first test was made a few days ago, when power from Great Falls was transmitted 330 miles over the wires of the companies. The contract is for two years.

The Victories of Chemistry in the Textile Industries.

Many of the most brilliant achievements of chemistry have been dierctly concerned with the textile industries. A little touch of chemistry to cotton yarns and farbrics in the mercerizing process gave the world what is practically a new textile fibre-cotton with the beauty and lustre of silk. A history of absorbing interest replete with struggle, the capture of positions of temporary advantage, the constant shifting of the fighting line, crushing defeats and signal victories, might be written of the development of the bleach and alkali industry. upon the products of which the textile manufacturer depends for the finishing of his goods. We see the pathetic figure of La Blanc dying in the poorhouse after enriching the world which Napoleon was devastating. No less interesting in its human and scientific aspects is the which chemists take so large a investment of \$750,000,000 follows Perkin's discovery of mauve.

How It Was to be Done.

A colored blacksmith recently announced a change in his business as follow: "Notice-De co-pardnership heretofore resisting between me and Mose Skinner is hereby resolved. Dem what owe de firm settle wid me, and dem what de firm owes will settle wid Mose."-Ex.

AMERICAN COMPANY MOISTENING

BOSTON, MASSACHUSE TTS

WILLIAM FIRTH President

FRANK B. COMINS, Vice-Pres. & Treas.

TE ONLY PERFECT SYSTEM OF AIR MOISTENING COMINS SECTIONAL HUMIDIFIER

JOHN HILL Southern Representative, Third Nat. Bank Building, ATLANTA' GEORGIA

Cotton Goods Report

expected in the staple goods divi- livery as far along as September very steady on lines of sheetings, facturers to insist upon the drills, denims, tickings, etc., and prices all around. goods available for the deliveries Current prices wanted, decidedly scarce. In most cases the mills are so well sold Pt clths, 28-in, std.. 3 7-8 ahead on many of the above lines 28-in, 64x60s 3 3-4 that they are refusing to accept further business at current price levels. On ginghams and prints business put through has been of large 4-yd, 80x80 . . . 6 7-8 to 7 volume with well known brands of Brown drills, std .. 8 ginghams held "at value," while there is a steady demand for tickets that are no so well known. Ad-standard brands, and some buyers Stark, 8-oz. duck . 12 express surprise that these have not Hartford, 11-oz., 40-in. already been announced. The situ-with gray goods at current levels advances are expected at no very distant date. On 4-4 bleached goods many of the mills are now sold ahead about as far as they care to Weekly Visible Supply of American go, and requests for still later deliveries at current price levels are being refused. Additional orders are being received on napped goods and flannelettes, in spite of the recent sharp advances named on these lines, with deliveries running well through into the fall. Jobbers complain that the retail demand has fallen off considerably during the past few days, as the weather has been too cold for retailers to do much business on spring and summer lines. In the carpet and rug trade interest now centers in the fall opening, which is three weeks away. It is now now : question of whether or not advances will be named on fall lines, but how much of an advance will manufacturers ask. Buyers who counted on an auction sale just before the opening, will be forced to cover their needs from the regular fall lines, although there are still quite a few of the opinion that stocks ir manufacturers' hands are considerably larger than they are willing to admit.

Trading continued fair in the Fall River print cloth market last The demand was principally week.. for wide goods and prices on this line advanced an eighth of a cent over last week's quotations. There was very little call for narrow goods although this style held very steady In spite of the fact that the prices have been advanced on wide goods this style still holds lower than narrow goods. There was no other change in price on cotton goods in this market.

Sales for the week are estimated at 165,000 pieces, of which about 50,000 were spots. Deliveries on most of the goods sold are to be made in June, although sales are fair for deat later dates. Buyers generally are in the market for ery and the uncertainty of the cot- -Exchange.

New York -A further advance is ton situation, with a tendency for sion of the market. The demand is advancing prices, is causing manu-

Current prices on cotton goods were quoted in New York as follows:

Gray goods, 39-in., 68

x72 5-8 to 5 3-4 38 1-2-in stds 5 1-8 to 5 3-16

Shigs, south, std. .. 7 3-4 .13 to 16 1-2

Standard ginghams. 6 1-4 — Fine dress ging.... 7 to 9 1-4 Kid fin. cambrics ... 4 1-4 to 4 1-2

Cotton.

April 19, 1912	4,075,799
Previous week	4,228,965
Last year	1,176,000

Weekly Cotton Statistics.

New York, April 19.-The following statistics on the movement of cotton for the week ending Friday, April 19, were compiled by the New cotton exchange:

WEEKLY MOVEMENT. This yr. Last Yr Port recipts 111.855

Overland to mills 9.977 and Canada 18.692 Southern mill takings (est.) Loss of stock at 35,000 35,000 interior, towns 27,768 27,976

Brought into sight for the week 138,780 69,025 TOTAL CROP MOVEMENT.

This Yr. Last Yr. Overland to mills Port receipts ...11,221,868 8,138,830 and Canada 866,279 South. mill takings

Southern mill takings (est.) 2,280,000 1,900,000 Stock at interior towns in excess

of Sept. 1 311,794 Brought into sight thus far for sea

son 14,589,111 11,223,604

She Classified Herself.

A woman with little wit sat at a public meeting between a bishop and a rabbi.

She thought she would be clever livery for July and August. There were a few contracts placed for de- and said to the rabbi: "I feel as if I were a leaf between the Old and

the New Testaments."
"Yes, Madam," said the goods for early summer deliv- "that page is usually a blank one."

GRINNELL WILLIS & COMPANY

44-46 Leonard Street, New York

SELLING AGENTS

BROWN AND BLEACHED COTTON GOODS FOR HOME EXPORT MARKETS



Independence is our motto, and we have no connection with any other Ring Traveler Company.

U. S. RING TRAVELER CO.

AMOS M. BOWEN, Treas.

PROVIDENCE. R. I.

Southern Audit Co.

Public Accountants and Auditors

901-903 Realty Building Phone 2103 CHARLOTTE, N. C.

C. L. SMITH President

JOHN W. TODD Vice-President and Secretary

The Desirability of the South

as the place to manufacture cotton goods is illustrated in the increase of 67% quoted by census department. We can offer attractive situations for those desiring to enter this field.

J. A. PRIDE

General Industrial Agent, Seaboard Air Line Railway

NORFOLK, VIRGINIA.

The Logical Location for Textile Mills

The three absolutely necessary commodities for operating successfully a textile mill are POWER, RAW MATERIAL and LABOR.

If your mill is located in a Southeastern State on one of the many CHEAP WATER POWERS which abound in that locality where cotton is delivered at your factory doors by growers—where intelligent LABOR IS PLENTIFUL and living expenses low, you will realize larger dividends than would be possible with your

factory located in any other part of the country.

If you contemplate establishing an industry, we would be pleased to give further and full information regarding location along the Southern Railway System.

M. V. RICHARDS

Land and Industrial Agent Southern Railway WASHINGTON, D. C.

The Yarn Market

Philadelphia, Pa.—The aggregate volume of business in the yarn market was not as large as that transacted during the previous week though there were some sales of 25,000 to 50,000 pounds. In most cases the buying was for small quantities for quick or spot deliveries. Some knitters and a few weavers bought for later delivery.

The knit goods situation is said to be good with the exception of single combed yarn and carded yarn for hosiery. Manufacturers of lightweight underwear are said to be in a position strong enough to advance prices on duplicate orders.

There is a fair demand for twoply combed yarn, both in the gray 16s and mercerized. The demand of single combed yarns from 10s to 26s 26s was not so large, as the supply is 30 small and prices have been ad- 36 vanced.

Buying on the hand to mouth policy is still continued by many weav- Southern Frame Spun Yarn on Cone ers, though there are a few on some lines who are buying for eight to ten weeks ahead, where they can buy at prices lower than spinners' quotations. There are a few who refuse to buy at any prices offered to them, but generally they are well covered for the next two months and some of them for an even longer time.

Southern Single Skeins.

88			*			*				*	100	*			16	1-2-	
10s		*					97.79		×1.00		1				17	-17	1-2
12s								1		*		*			17	1-2-18	
148				1	*	1									17	1-2-18	
168															18	1-2-	
20s						1	*						17.00	*	19	19	1-2
26s															20	1-2-21	
30s	1														23	-23	1-2

Southern Two-Pi, Skeins:

88		17 1-2-
10s		18 -
12s		18 1-2-
14s		18 1-2-19 1-2
168		19 —20
20s	***********	21 —21 1-2
248		22 1-2-
268		23 —
30s	************	25 1-2-
40s		31 1-2-31
50s	************	38 —39
60s		45

Upholstery Yarn in Carpet and Skeins:

8-3	hard	twist	17	_
8-4	slack		18	

Southern Single Warps:

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Single Skeins Carded Peeler:

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ine														20		

Two-Ply Carded Peeler in Skeins

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40s											*							32	1-2-33
50s	-							1										39	40
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Single Combed Peeler Skeins:

Two-Ply Combed Peeler Skeins

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408										100					41	-42	
50s				1				9/						100	47	-49	
60s															55	-58	
708				100						1		100			62	65	
80s		100				0									73	-77	

A. M. Law & Co. F. C. Abbott & Co.

Spartanburg, S. C. BROKERS

Dealers in Mill Stocks and other Southern Securities

	Southern Securities		road	Stock and	Othe	r High	
S	outh Carolina and Georgia	Mill		Grade Sec	curitie	•	
	Stocks.	Asked	North	Carolina	Mill		
A	bbeville Cot Mills, S. C	75	Arlington			Bid.	13
	iken Mfg. Co. S. C	721/2	Atherton				
A	mer. Spin. Co., S. C	162	Avon				10
	nderson Cot Mill, S. C. p 90	05	Bloomfield				11
2 A	ragon Mills, S. C	65 90	Brookside				11
	rkwright Mills, S. C	100	Brown M				11
	ugusta Factory, Ga 45		Cabarrus Cannon .				
			Chadwick-				9
	Belton Cotton Mills, S. C. 100	110	Chadwick-	Hoskins,	pfd.		10
Ē	Brandon Mills, S. C	93	Clara				11
1	Brogon Mills, S. C 51	61	Cliffside				20
2	Capital Cot Mills, S. C	61 85	Cora				13
	Chiquola Mills, S. C	167	Dresden Dilling				13
	Clifton Mfg. Co., S. C 75						1
- (Clifton Mfg. Co., S. C., pfd	100	Elmira, p				11
	Clinton Cot Mills, S. C	125	Erwin Co	m			1
	Courtenay Mfg. Co., S. C	90 .	Erwin, pf	d		101	1
	Clumbus Mfg. Co., Ga 92½ Cox Mfg. Co., S. C	70	Florence				1
	D. E. Converse Co., S. C	75	Flint				
	Dallas Mfg. Co., Ala	100	Gaston Gibson				
	Darlington Mfg. Co., S. C	75	Gray Mfg	Co			4
	Drayton Mills, S. C	90	Highland	Park .		150	0
	Eagle & Phenix Mills, Ga. 108		Highland	Park, pfd	l	10	0
	Easley Cot Mills, S. C 160	165	Henrietta				1
	Enoree Mfg. Co., S. C 25 Enoree Mfg. Co., S. C. pfd	100					1
	Enterprise Mfg. Co., Ga	70	Kesler .			115	
	Exposition Cot Mills, Ga	210	Loray n	fd		****	
	Fairfield Cot Mills, S. S	70	Lowell		1000		
	daffney Mfg. Co., S. C	60	Lumberto	on			2
-2	Gainesville Cot Mills, Ga.,	201/	Mooresvi	lle		123	
	Glenwood Mills, S. C	621/2	Modena				
	Glenn-Lowry Mfg. Co., S.	141	Nokomis,	N. C			2
	C 101		Dattereor			420	
	Glenn-Lowry Mfg. Co., S.		Raleigh	1		100	
	C., pfd	95	Roanoke	Mills		140	
	Gluck Mills, S. C	91	Salisbury			136	
	Granby Cot. Mills, S. C Granby C Mills, S. C., pfd 435	4.65		le Cot. 1			
	Granite C Mills, S. C., pro 133		Trenton,	N. C			
	Greenwood C Mills, S. C. 57			ton, pfd.			
	Grendel Mills, S. C 91	100		ton		20	
	Hamrick Mills, S. C	102	Wiscasse	ett		100	
	Hartsville C Hills, S. C	170	Woodlav				
	Inman Mills, S. C	105	Donkon	Mill onto	monto	od	
	Inman Mills, S. C., pfd Jackson Mills, S. C	100	Parker	Mill, pref		ed	
-2	King, John P. Mfg. Co., Ga 80	85	Parker				
	Lancaster Cot Mills, S. C. 130		Pelzer M	Mfg. Co.,	S. C	138	8
	Lancaster C. M., S. C., pfd 98		Pickens	Cot. Mil	l, S.	C. 9	
	Langley Mfg. Co., S. C 65	a difference death.	Piedmon	t-Mfg. Co	., S. 1	G. 14	4
	Laurens Cot Mills. S. C	120	Poe, F.	W. Mfg.	UO., 8	.C. 100	
	Limestone Cot Mills, S. C Lockhart Mills, S. C		Riversid	Cot Mills e Mills, S	i, ia. u	. р	
	Marlboro Mills, S. C 60		Sibley !	Mfg. Co.,	Ga	60	
	Mills Mfg. Co., S. C 90		Spartan	Mills, S	. C	110	0
	Mollohon Mfg. Co., S. C		Toxaway	Mills, S	. C		
	Monarch Cot Mills, S. C. 110		Tucapau	Mills, S	. C	26	0
	Monaghan Mills, S. C			uffalo Mi			
	Newberry Cot Mills, S. C. 125 Ninety-Six Mills, S. C 135	135		eferred .			U
	Norris Cot Mills, S. C		2nd n	suffalo Mi referred	110, 10	· Un	
	Olympia Mills, S. C. pfd		Victor N	Ifg. Co., S	S. C.		
	Orangeburg Mfg. Co., S. C.,		Ware S	hoals Mf	g. Co.	, S.	
1-2	pfd		C				
	Orr Cottton Mills, S. C 91		Warren	Mfg. Co.	, S. C	8	0
	Octaray Mills, S. C		Watte	Mfg. Co.,	S. C.	, p 10	U
	Oconee, S. C., pfd		t Whitney	Mills, S. Mfg. Co	D. S	· C	
	Pacolet Mfg. Co., S. C	. 90	William	ston Mill			
	Pacolet Mig. Co., pfd	100∈		ff Cot Mi			

Charlotte, N. C. **BROKERS**

Southern Mill Stocks, Bank Stocks, N. C. State Bonds, N. C. Rail-

Grade Securities		
North Carolina Mill Arlington		
Arlington	1	37
Atherton		
Avon	1	00
Bloomfield		110
Brown Mfg. Co., com		112
Brown Mfg. Co., com	100	115
Cabarrus	131	
Cannon	120	95
Chadwick-Hoskins, pfd.	• • •	100
Clara		110
		200
		135
		136
	00	104
With the same of t		125 100
Erwin Com		120
Erwin, pfd	101	102
		126
Flint	140	
Gaston		90
Gibson		80
Gray Mfg. Co	450	200
Highland Park Highland Park, pfd	100	200
Henrietta	100	170
Imperial	101	106
Kesler	115	
Linden		***
Loray, pfd Lowell		91
Lowell	****	181
Lumberton	123	201
Modena		
Nokomis, N. C		200
Ozark		110
Patterson	120	126
Roanoke Mills	140	104
Salisbury		101
Statesville Cot. Mills		
Trenton, N. C		
Tuscarora		90
	95	100
Washington	20	30
Wiscassett	100	115
		100
Parker Mill, guarantee Parker Mill, preferred	d	102
Parker Mill, preferred		65
Parker Mill, common.	. 138	140
Pelzer Mfg. Co., S. C. Pickens Cot. Mill, S.	C. 94	140
Piedmont Mfg. Co., S. C	144	160
Poe, F. W. Mfg. Co., S.	C. 100	115
Richland Cot Mills, S. C.	p	
Riverside Mills, S. C		25
Sibley Mfg. Co., Ga	60	64
Spartan Mills, S. C Toxaway Mills, S. C	110	72
Tucapau Mills, S. C	260	16
Union-Buffalo Mills, S.	C	
1st preferred	50	60
Union-Buffalo Mills, S.	C.,	
2nd preferred	15.351	10
Victor Mfg. Co., S. C Ware Shoals Mfg. Co.,	· · · · ·	***
C	D.	80
Warren Mfg. Co., S. C.	80	-

Personal Items

G. B. Young, of Fries, Va., has moved to Schoolfield, Va.

Jno. H. Stevens is now overseer of carding at the Pelham (Ga.) Mfg. Co.

George Witherspoon has resigned as overseer of weaving at the Drayton (S. C.) Cotton Mills.

Pink Lackay, from York Cotton Mill, is now fixing looms at the Aragon Mill, Rock Hill, S. C.

J. K. Walker has resigned his position as overseer of weaving at Bamberg, S. C.

Ed. DeForrest of Warrenville, S. C., is now located at Philadelphia, Pa.

D. M. Tompkins has resigned as overseer of spinning at the Seneca Cotton Mills, Seneca, S. C.

J. C. Love of the Calvine Mill, Charlotte, N. C., is now overseer of spinning at the Fidelity Mill, of the same place.

W. B. Hixon, who resigned overseer of spinning at Avondale Mills, Birmingham, Ala., is now located at Bath, S. C.

C. J. Smith has been promoted from section hand to second hand spinning at the Buffalo (S. C.) Mills

J. S. Lamb, of Birmingham, Ala. has accepted the position of overseer of weaving at the Union Cotton Mills, Lafayette, Ga.

J. C. Stroud, who recently resigned as overseer of spinning at the Gleucoe Mills, Columbia, S. C., has accepted a similar position with the Seneca (S. C.) Cotton Mills.

G. L. Austin has resigned his position in the Brandon Mill, Greenville. S. C., to accept a position as second hand in spinning at the Westervelt Mill of the same place.

Harvell Rogers, of Glass, who has been with the Stuart Cramer Co., of Charlotte, for some time, has charge of the company's exhibit at the textile show at Boston.

A. H. Webb has resigned his position as section hand in spinning room at Columbus (Ga.) Mfg. Co. to accept position as second hand with the Yazoo Yarn Mill, Yazoo City. Miss.

W. A. McKee has resigned as chief engineer and master niechanic at the Wallace Mills, Jonesville, S. C., and accepted a position with the American Machine and Mfg. Co., Greenville, S. C.

R. L. Bryant, overseer of the dressing at the Washington Mills, Fries, Va., is at present engaged for two or three months with the Stark Mill, Manchester, N. H., introducing new methods and system in their slashing and warping department He will return to Fries about May

After being refused a marriage license, on the ground that the young was too young, and did not

Walker and Miss Lizzie Quinn, both of the Loray Mill, Gastonia, N. C., returned to the register of deeds with an order signed supposedly by the parents of the girl, and John Willis, a witness. Later it developed that the order was forged and that the girl signed her parents' names to it. Lester Walker, a brother of

Mr. Quinn, father of the bride, is very much wrought up over the matter and says he does not like the

the groom, it is said, wrote the other

Mill Worker Shot Hackman.

While he was being severely beataccording to the evidence given at the coroner's inquest, Levi Lawson, a mill worker of Pacolet, S. C., shot town of Pacolet Mills.

Annexed Neighbor's Cow.

C. O. Boswell, who moved to Orr Cotton Mill a month or so ago from young man who has married his near Elberton, Ga., but who now redaughter under such precarious cir- sides at Cox Mills, Anderson, S. C., was brought in Sa cumstances. decided Friday night to go into the

Thursday, April 25, 1912.

live stock business. His plans, however, were broken up somewhat as he obtained his stock in a manner en by the victim and after he had not exactly agreeable to all parties been challenged to use his pistol concerned—S. A. Pickens and J. B. according to the evidence given at Bryant, both residents of Orrville and likewise each of them the possessor of a fine milch cow, found Howard Kirby, a hackman of that when they went out to the cow barn place Saturday night. Kirby died Saturday morning their cows were in the Spartanburg hospital. Law- gone. A diligent search was at once gone. A diligent search was at once in the Spartanburg hospital. Law-gone. A diligent search was at once son surrendered and is in jail. The instituted and they soon became affair occurred near O. C. Grossett's convinced that the cows had been store on the road leading from the driven off the place. Officers were notified of the facts, and were soon on the trail, finding the aforemention Boswell and the cows at Iva, where he had sold them for \$16 each, the party buying them suspecting something wrong and holding up the deal until he found out. Boswell was brought in Saturday afternoon

Homicide at Belton.

Sam Fisher shot and instantly killed Mart Strickland. Both men worked in the Belton (S. C.) Mills and were each 20 years of age. The shooting occurred Tuesday.

Fisher was immediately brought to the county jail after shooting, and when seen in his cell, said that he and Strickland had been drinking together during the afternoon. For some reason un-known to Fisher, he says, Strickland got mad at him and advanced on him. Fisher said he wanted to avoid a row, so ran; that Strickland picked up a clinker and hurled it at him, knocking him down, and Strickland continued to advance on him, at the same time trying to open his knife. Fisher says he pulled his gun while lying on the ground and fired five times at Strickland. The first and second shots missed their mark, but the third struck Strickland, who expired in a few minutes. Fisher's account of the shooting was corroborated by witnesses.

A later report states that Fisher

was released on a bond of \$1,000.

Prattville Cotton Mill,

Prattville, Ala.

D. E. Edwards,.....Superintendent ... Cloth Room A. E. McCreary Master Mechanic

His Way.

"Well, Mum," said the sympathetic neighbor the day after the funeral. suppose your Bill's hitting the harp with the angels now?"

"Not him, sir," said the widow "Hitting the angels with the harp is nearer his mark."—Exchange.

No Prodigy

"Yes, sir, that boy of mine is a piano player. Why he can play with his toes," said a proud father.
"How old is he?" asked the friend.
"Fifteen."

"Well," said the friend, "I've got a boy at home who can play with his toes, and he's only one year old."—Exchange.

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helping to keep down the growing coal account.

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SOLUBLE GUM to be used in Warp Sizing. It is especially valuable as a binder, as it combines readily with any starches and holds the Size well on the yarn. We recommend this Gum especially where

wires are in use. Besides making a smooth, pliable warp, users of Yorkshire Gum will find the threads split readily, and "break backs" While giving the very best results, it is, at the same time, a most economical Size. It also prevents foaming in the box. Should use Raw Tallow or Soluble Tallow in addition. Write for formula.

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Want Department

Want Advertisements

If you are needing men for any position or have second hand ma-chinery, etc., to sell, the want col-umns of the Southern Textile Bulletin afford a good medium for advertising the fact.

Advertisements placed with us reach all the mills.

Employment Bureau.

The Employment Bureau is a feature of the Southern Textile Bulletin and we have better facilities for placing men in Southern mills than any other journal.

The cost of joining our employment bureau is only \$1.00 and there is no other cost unless a position secured, in which case a reasonable fee is charged.

We do not guarantee to place every man who joins our employment pureau, but we do give them the best service of any employment bureau.

Spinner Wanted.

Want overseer of spinning (7,000 spindles) on 12's to 24's hosiery yarns. Must be sober, of good character and produce results. Married man preferred Also want section man in winding department. State wages expected and full particulars. Address No. 1,014.

Cloth Room Overseer.

An A-1 overseer of cloth room in a 50,000 spindle mill, making ducks, dril's, twills, sheetings and osnal rgs. Nothing but a man of wide experience in managing large rooms on this class work need apply.

This position pays about \$1,000 a year, and free house rent. Address No. 1013.

Operatives Wanted.

We will need card and picker room help for night work be-ginning about May 11th. Can furnish day work for spinners, spoolers and winders in the families of men who take the night

Twine Mill Co., T. J. McNeely, Supt., Roanoke, Va.

Read This:

We are starting up our weaving, and can use a number of first class DRAWING-IN HANDS at GOOD WAGES. Can also use several more families of good SPINNERS. Apply to R. P. Sweeny, Supt., Wylie Mills, Chester, S. C.

Carder Wanted.

An A-1 overseer of carding for a 60,000 spindle mill, manufactur-ing cloth, rope, and twine, and making yarns from 1's to 24's. We do not want anyone to apply for this position except an A-1 carder, who thoroughly under-stands the theory of carding, and has had some years practical ex-perience running large rooms on this class of work, and who can turn out good clean, and smooth even yarns, free of leaf and dirt of all descriptions.

This mill is located in the outh. This is a good position for the right man, and pays, including free house rent, about \$1,400 per year. Address No. 1012.

Wanted.

Good, steady man to look after and repair Reed and Harness. Steady work with good pay to

right man. Apply to

C. C. Bolen,

Dan River Mills, Danville, Va.

WANT position as overseer of carding. 17 years in card room. 7 years experience as overseer. Can furnish good references. Address

WANT position as superintendent, or overseer of large weave room Have had long pracetical experience and can furnish satisfactory reference. Address No. 126.

position as engineer and machinist. Now employed but could change on short notice. Can furnish good references. Address No. 127.

position as overseer of carding; or carding and spinning in small mill. Age 34. Married. Long experience. Can furnish good references. Address No No. 128.

ANT position as superintend-ent of yarn mill. Have had six years' experience hosiery yarns. Can furnish good references. Age Married. Address No. 129.

WANT position as overseer of carding or spinning or overseer carding and spinning. Have had WANT position as superintendent long experience and can furnish or carder and spinner. Now embest of references. Address No. 130.

WANT position as overseer of weaving in small room, or sec-ond hand in large room. Expe-rienced on counts from 18s to 50s. Experienced on plain and Draper looms. Good manager of help, sober and reliable. Greferences. Address No. 131.

WANT position as overseer weaving in large mill on white work. 22 experience on Stafford Automatic Looms, also expert on Draper Looms. Can get quality Draper Looms. Can get quality and quantity. Will consider noth-ing less than \$5 per day. Address No 432

WANT position as superintendent of mill making cloth, or would take overseer of spinning in large Now employed as supmill. Long experience, good ref-erintendent but wish to change. Address No. 133.

WANT position as carder or spinner. Can take position in short notice and can furnish the best of references. Address No. 134.

WANT position as superintendent of small yarn mill, or overseer of carding in large mill. Familiar with white and colored goods. 23 years experience in mill business Now employed as superintendent. Would not consider less than \$3.50 per day. Address No. 135.

WANT position as superintendent of yarn mill. Experienced on white and colored yarns from 8's to 40's. Have 23 years experience and can give good references. Address No. 135.

WANT position as overseer of weaving. Experienced on both colored and white work. Age 34. Married. Good references. Address No. 136.

WANT position as overseer carding at not less than \$3.00. Now employed but wish healthier location. Have had long experience and can furnish best of references. Address No. 137.

WANT position as superintendent or overseer of carding and spinning at not less than \$4.00. Now employed in large mill but wish to change. Good references. Address No. 138.

WANT position as carder and spinner or spinner in large mill. Age 34. Married. Good experience and references. Address No.

WANT position as superintendent. Long experience and now employed but wish larger mill. Can furnish best of references. Address No. 140 .

or carder and spinner. Now employed and can furnish good ref-Address No. 141.

WANTED position as overseer spinning by practical as well as a technical man. Married. Am strictly temperate. Can come on short temperate. Can come on short notice. Will consider nothing less than \$2.50 per day. Address No.

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position as overseer of spinning, Experience on all numbers but prefer fine work. Am from the South but for several years have been with fine yarn mills at New Bedford and other New England towns. Good ref-Address No. 143.

WANT position as overseer of cloth room. 20 years experience. 10 years at present place. Strictly Good references. Address

WANT position as superintendent or overseer of large card room. Have had long experience and am now employed. Address No. 145.

WANT position as superintendent. 27 years mill experience. 8 years on present position. Experienced both white and colored goods. Satisfactory references. dress No. 146.

WANT position as overseer of weaving. Experience on both plain and fancy goods but would prefer box loom job. Have filled former positions satisfactorily and can get production at low cost. Address No. 147.

WANT position as superintendent in North Carolina, South Carolina or Northern Georgia. experience and can furnish best of references as to ability and character. Address No. 148.

WANT position as overseer of weaving. Married. Age 40. Have run some of the largest rooms in S. C. and Ga. Can give good references. Address No. 152.

WANT position as superintendent. Have had long practical experience and am now assistant superintendent of a large mill and giving satisfaction. Can give as reference my present employers. Address No. 149.

WANT position as superintendent or carder in a large mill. 15 years experience as carder. 4 years as superintendent. Experienced on both plain and fancies. Best of references. Address No. 150.

WANT position as overseer of weaving in a good mill. Have eleven years experience on plain and check work. Address

(Continued on Page 18)

Have had good experience on Draper, Crompton Knowles and dobby looms. Good references, Will not consider less than \$3.50. Address

WANT position as overseer of weaving, 15 years' experience or both white and colored goods. Can furnish references from first class mills. Address No. 154.

WANT position as superintendent of either yarn or weaving mill of 5,000 to 15,000 spindles. At present employed in fine colored goods mill, Age 32. Married, 20 years experience. Good references, Ad- WANT position as overseer spindress No. 155.

WANT position as overseer of carding or spinning. Have had long practical experience and am now holding position in first-class mill but prefer to change. Address No.

WANT position as superintendent. 36 years of age. Strictly sober. Best of references, Would consider large carding or spinning job. Held present position six years. Address No. 157.

WANT position as overseer of spin-ning. 10 years' experience as overseer on No. 30's to 100's. Can give good references. Married. 30 years old. Address No. 158.

WANT position as superintendent. Have had long experience on coarse work and blanket manufacturing. First class references.

WANT position as overseer of WANT position as overseer of card-weaving. Have held present po-sition as overseer for four years. always given satisfaction. Now ing. Long experience and have always given satisfaction. Now employed but prefer to change. Good references. Address No. 160.

> WANT position as overseer of slashing, beaming (long or short chain), spooling, warping or drawing-in. Have had long expe-rience and am expert on sizing. Address No. 161.

> position as superintendent. Now employed but prefer to change. Can furnish first class references both as to character and ability. Address No. 162.

> ning. 20 years experience, both colored and plain work. Age 41 Married. Can furnish best of references. Address No. 163.

WANT position as superintendent of small mill, not over 8,000 spindle son hosiery yarn, or overseer of large card room. Good references. Address No. 164.

WANT position as overseer of spinning, twisting, or in winding room 18 years experience in spinning twisting. spooling, reeling and winding. Will not consider less than \$2.00 per day. Age 32. Married. Address No. 165. Familiar

WANT position as overseer of carding. Have had 21 years experience as overseer of carding in some of the best mills in the South Can furnish the best ences. Address No. 167.

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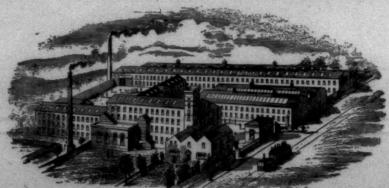
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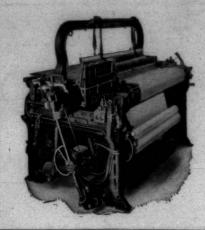
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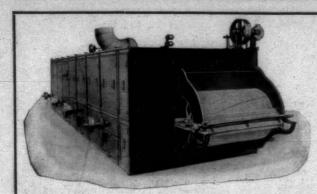
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